PCT/KR2004/002732

PATENT COOPERATION TREATY

From the

INTERNATIONAL SEARCHING AUTHORITY

To: KIM, Seog-Hyun		PCT	
9th Floor, Dackyung Building, 2-ka, Tacpyung-ro, Chung-ku, Seoul 100-724 Republic of Korea		WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1)	
		Date of mailing (day/month/year)	24 FEBRUARY 2005 (24.02.2005)
Applicant's or agent's file reference OP04-1077		FOR FURTHER ACTION See paragraph 2 below	
International application No. PCT/KR2004/002732		International filing date (day/month/year) 27 OCTOBER 2004 (27.10.2004) Priority date(day/month/year) 27 OCTOBER 2003 (27.10.2003)	
International Patent Classification (IPC IPC C12Q 1/68, C12N 15/00) or both national classifica	tion and IPC	
Applicant FNP CORP., LTD. et al		· · · · · · · · · · · · · · · · · · ·	

١.	This	opinion contain	s indications relating to the following items:		
	\boxtimes	Box No. I	Basis of the opinion		
		Box No. II	Priority		
		Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability		
		Box No. IV	Lack of unity of invention		
		Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
		Box No. VI	Certain documents cited		
		Box No. VII	Certain defects in the international application		
		Box No. VIII	Certain observations on the international application		
	<u></u>				

Name and mailing address of the ISA/KR



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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/KR2004/002732

Ro	x No. 1 Basis of this opinion
١.	With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
	This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
۷.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
	a. type of material a sequence listing
	table(s) related to the sequence listing
	b. format of material
	in wirtten format
	in computer readable form
	c. time of filing/furnishing
	contained in the international application as filed.
	filed together with the international application in computer readable form.
	furnished subsequently to this Authority for the purposes of search.
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Additional comments:

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/KR2004/002732

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

atement			
Novelty (N)	Claims	1-13	YES
	Claims	NONE	NO
Inventive step (IS)	Claims	1-13	YES
	Claims	NONE	NO
Industrial applicability (IA)	Claims	1-13	YES
	Claims	NONE	NO

2. Citations and explanations:

Claims 1-3 of the present invention relate to nucleic acids comprising a base sequence of SEQ ID NO 2 or SEQ ID NO 22, and a primer including a partial base sequence of said nucleic acids. Claims 4-10 relate to a detecting kit for CMV(Cucumber mosaic virus) resistance plants including said nucleic acid of claim 1 and the primer of claim 2, a detecting method and a genotype determining method. Claims 11-13 relate to CMV resistance plants including the nucleic acid comprising base sequence of SEQ ID NO 2 or SEQ ID NO 22.

1. Novelty

The detecting kit for CMV(Cucumber mosaic virus) resistance plants, the detecting method, the genotype determining method, and the CMV resistance plants, by means of nucleic acids comprising a base sequence of SEQ ID NO 2 or SEQ ID NO 22 and a primer including the same of claims 1-13 are novel over the cited prior art documents [PCT Article 33(2)].

2. Inventive Step

The detecting kit for CMV(Cucumber mosaic virus) resistance plants, the detecting method, the genotype determining method, and the CMV resistance plants, by means of nucleic acids comprising a base sequence of SEQ ID NO 2 or SEQ ID NO 22 and a primer including the same of claims 1-13 cannot be readily invented by a person skilled in the art. Thus claims 1-13 of the present invention are inventive [PCT Article 33(3)].

3. Industrial Applicability

Claims 1-13 of the present invention are industrially applicable [PCT Article 33(4)].

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